



TO-92 Encapsulate Three-terminal Voltage Regulator

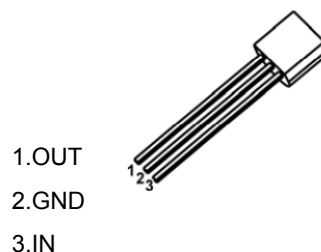
CJ75L05

Three-terminal positive voltage regulator

FEATURES

- Output current
 I_O : 100mA
- Output voltage
 V_O : 5 V
- Continuous total dissipation
 P_D : Internal limited

TO-92



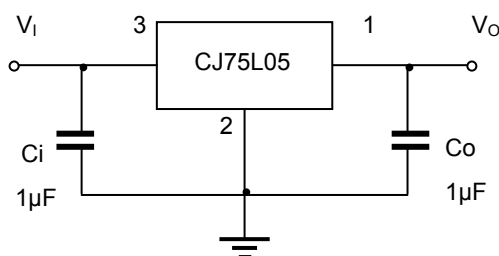
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage Range	V_I	-0.3~+40	V
Operating Ambient Temperature Range	T_{OPR}	-40~+85	°C
Storage Temperature Range	T_{STG}	-55~+150	°C

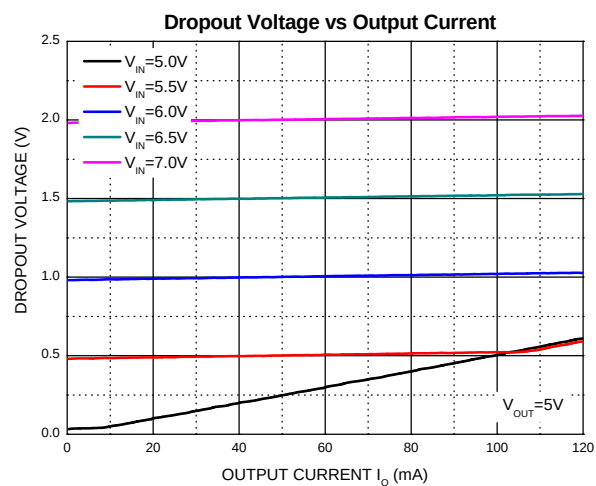
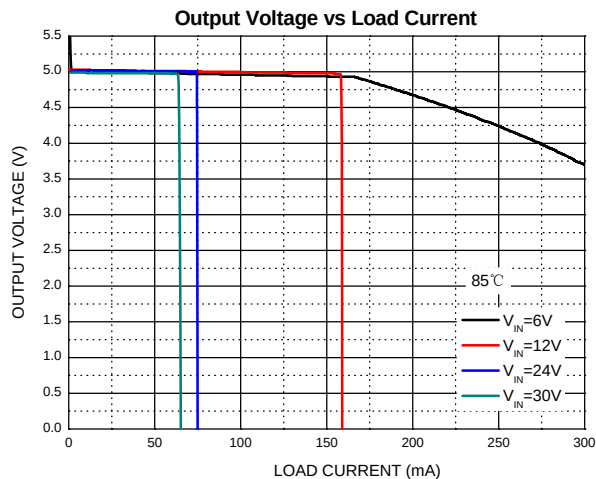
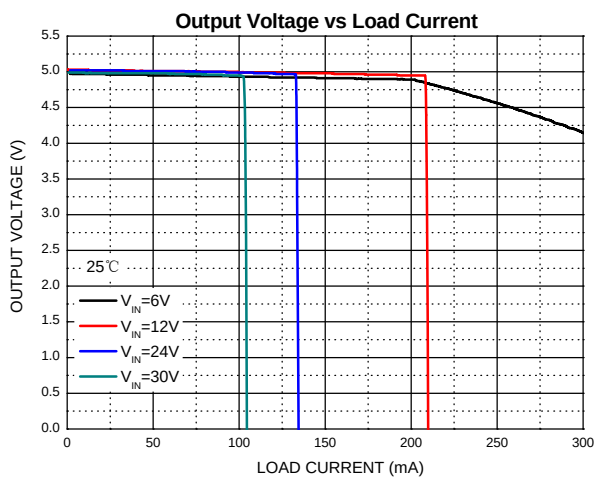
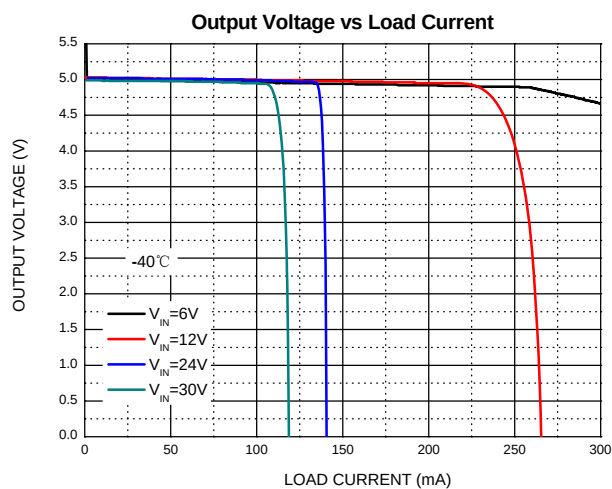
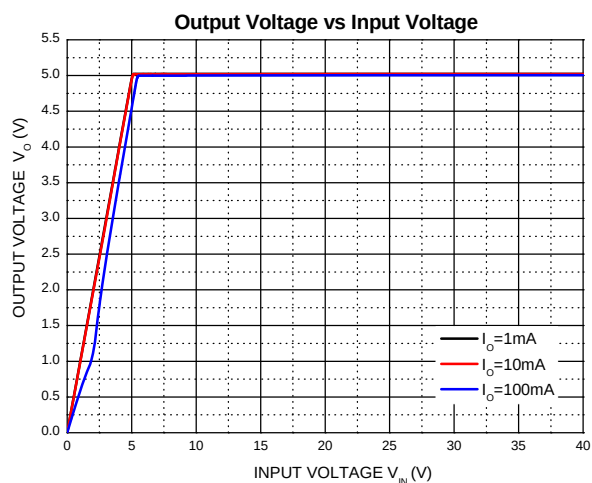
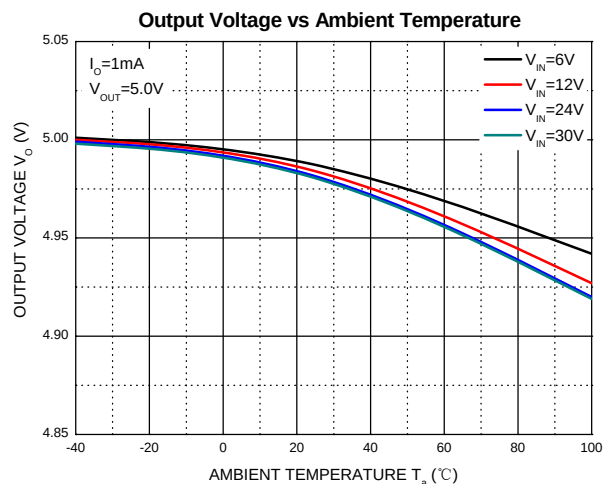
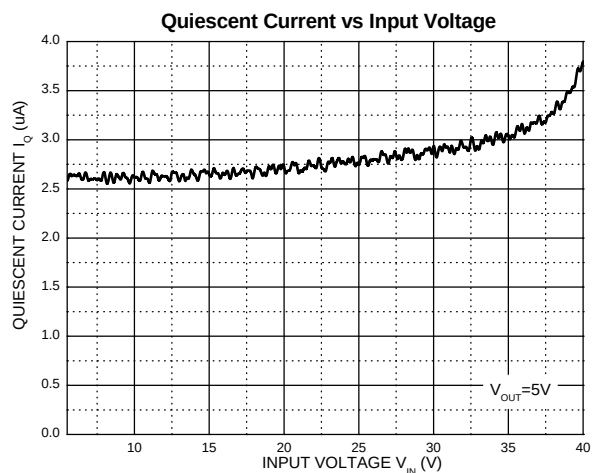
ELECTRICAL CHARACTERISTICS ($V_I=7V$, $C_i=C_o=1\mu F$, $T_a=25^\circ C$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Input voltage	V_I		2.5		36	V
Output voltage	V_O	$V_I=7V, I_O=10mA$	4.9	5	5.1	V
Load regulation	ΔV_O	$V_I=7V, I_O=1mA \sim 100mA$		10		mV
Line regulation	ΔV_O	$6V \leq V_I \leq 36V, I_O=10mA$		0.01	0.3	%/V
Quiescent current	I_q	$V_I=7V$, No load		2	5	μA
Dropout Voltage	V_d	$I_O=100mA$		500		mV
Output noise voltage	V_N	BW=10Hz to 100kHz		135		μV_{RMS}
Ripple rejection	RR	$I_O=50mA$	f=100Hz	80		dB
			f=1kHz	70		
			f=10kHz	60		
			f=100kHz	40		
Short current	I_{SC}	$V_{OUT}=V_{SS}$		25		mA
Output Current Limit	I_{PK}	$V_{OUT}=0.5 \times V_{OUT(Normal)}$, $V_{IN}=5V$	250	400		mA
Thermal protection	T_{SD}			150		°C
Temperature coefficient	$\Delta V_O / \Delta T$	$I_O=10mA$		50		ppm

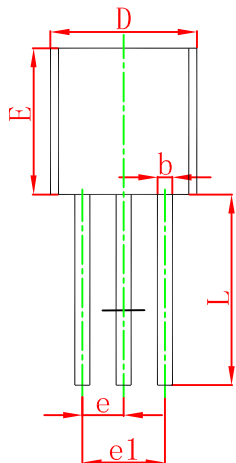
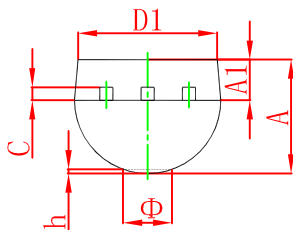
TYPICAL APPLICATION



Typical Characteristics

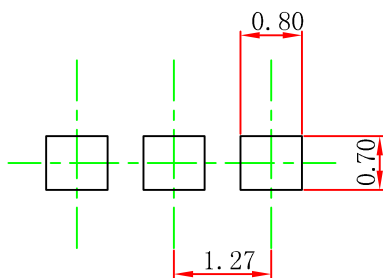


TO-92 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	3.300	3.700	0.130	0.146
A1	1.100	1.400	0.043	0.055
b	0.380	0.550	0.015	0.022
c	0.360	0.510	0.014	0.020
D	4.300	4.700	0.169	0.185
D1	3.430		0.135	
E	4.300	4.700	0.169	0.185
e	1.270 TYP		0.050 TYP	
e1	2.440	2.640	0.096	0.104
L	14.100	14.500	0.555	0.571
Φ		1.600		0.063
h	0.000	0.380	0.000	0.015

TO-92 Suggested Pad Layout



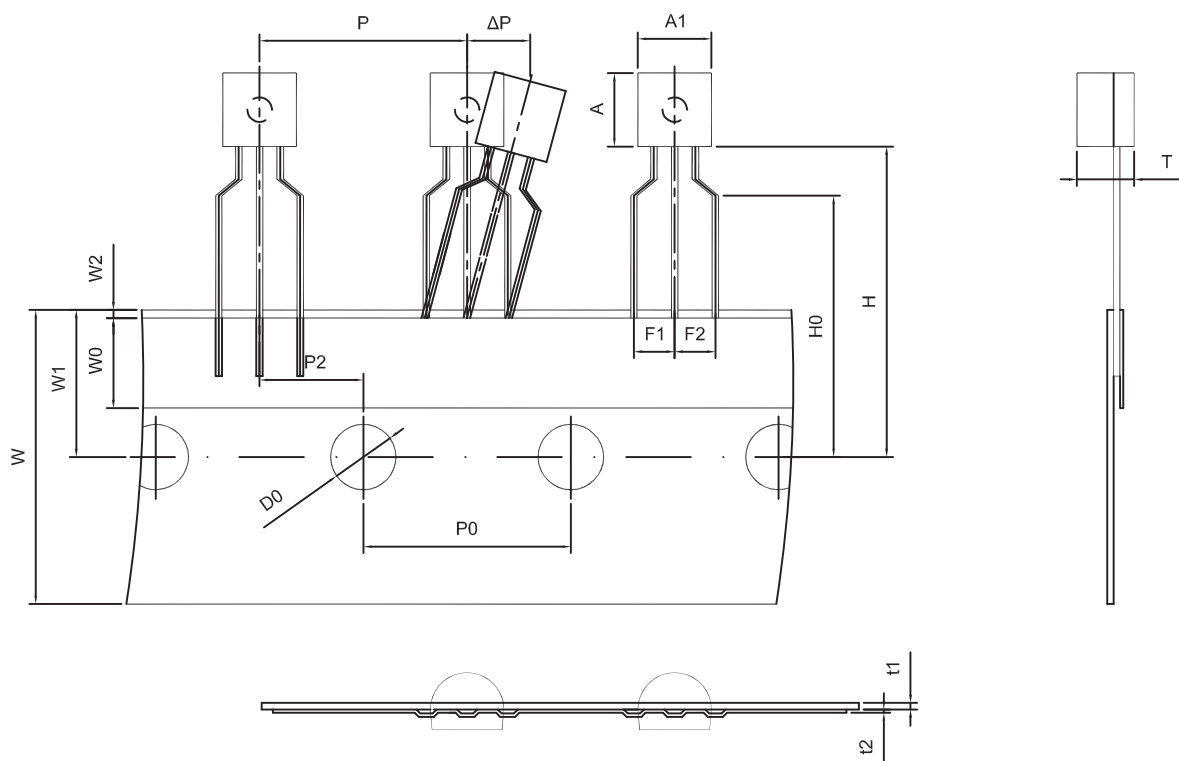
Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

NOTICE

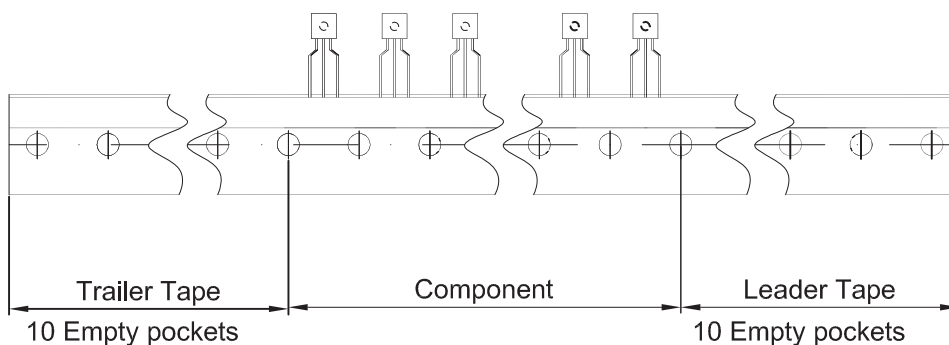
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TO-92 PACKAGE TAPEING DIMENSION



Dimiensions are in millimeter

A1	A	T	P	P0	P2	F1	F2	W
4.5	4.5	3.5	12.7	12.7	6.35	2.5	2.5	18.0
W0	W1	W2	H	H0	D0	t1	t2	ΔP
6.0	9.0	1.0 MAX.	19.0	16.0	4.0	0.4	0.2	0



Package	Box	Box Size(mm)	Carton	Carton Size(mm)
TO-92	2000 pcs	333×162×43	20,000 pcs	350×340×250